

What is claimed is:

1                    1.     For use in an automotive anti-lock braking system, an electrical  
2     connector for establishing a solderless connection between a solenoid wire coil and a  
3     printed circuit board, the electrical connector comprising:  
4                    a coil bobbin having at least one stem extending from a first surface  
5     thereof; and  
6                    a wire wound in a coil arrangement around the coil bobbin and having  
7     a pre-tinned portion disposed over a distal end of the at least one stem.

1                    2.     An electrical connector, according to claim 1, wherein the pre-  
2     tinned portion of the wire passes through a hole defined by the first surface of the coil  
3     bobbin.

1                    3.     An electrical connector, according to claim 1, wherein the at  
2     least one stem is formed from plastic.

1                    4.     An electrical connector, according to claim 1, further  
2     comprising a secondary bobbin formed over the wire.

1                    5.     An electrical connector, according to claim 4, further  
2     comprising a multi-lip wire seal formed over the secondary bobbin for sealing the  
3     wire.

1                    6.     An electrical connector, according to claim 1, wherein the wire  
2     is sealed using at least one of an O-ring and silica gel.

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1 7. For use in an automotive anti-lock braking system, an electrical  
2 connector for establishing a solderless connection between a solenoid wire coil and a  
3 printed circuit board, the electrical connector comprising:  
4 a coil bobbin having a plurality of plastic stems extending from a first  
5 surface thereof;  
6 a wire wound in a coil arrangement around the coil bobbin and having  
7 pre-tinned portions disposed over distal ends of each of the plurality of plastic stems;  
8 a secondary bobbin formed over the wire; and  
9 a multi-lip wire seal formed over the secondary bobbin for sealing the  
10 wire.

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